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APPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/074,162	(	02/12/2002	Brian N. Tufte	1076.1101103	6734		
28075	7590	02/23/2004		EXAMINER			
	•	GER & TUFTE, LL	C	LEE, GUIYOUNG			
1221 NICOI SUITE 800	LELAVI	ENUE		ART UNIT PAPER NUMBER			
MINNEAPO	LIS, MN	55403-2420	2875				

DATE MAILED: 02/23/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
		10/074,162	TUFTE, BRIAN N.				
	Office Action Summary	Examiner	Art Unit				
	-	Guiyoung Lee	2875				
	The MAILING DATE of this communicatio		rith the correspondence address				
Period fo	• -						
THE - Exte after - If the - If NO - Failu Any	ORTENED STATUTORY PERIOD FOR R MAILING DATE OF THIS COMMUNICAT! nsions of time may be available under the provisions of 37 C SIX (6) MONTHS from the mailing date of this communicati e period for reply specified above is less than thirty (30) days o period for reply is specified above, the maximum statutory ure to reply within the set or extended period for reply will, by reply received by the Office later than three months after the ed patent term adjustment. See 37 CFR 1.704(b).	ION. FR 1.136(a). In no event, however, may a on. , a reply within the statutory minimum of th period will apply and will expire SIX (6) MO statute, cause the application to become A	reply be timely filed  rty (30) days will be considered timely.  NTHS from the mailing date of this communication.  BANDONED (35 U.S.C. § 133).				
Status							
1)⊠	Responsive to communication(s) filed on	20 January 2004.					
2a)□	·	This action is non-final.					
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposit	ion of Claims						
5)⊠ 6)⊠ 7)⊠	Claim(s) 1-24 and 26 is/are pending in the application.  4a) Of the above claim(s) is/are withdrawn from consideration.  Claim(s) 13-15 and 26 is/are allowed.  Claim(s) 1-6,8-12,16-21,23 and 24 is/are rejected.  Claim(s) 7 and 22 is/are objected to.  Claim(s) are subject to restriction and/or election requirement.						
Applicat	ion Papers						
10)	The specification is objected to by the Example The drawing(s) filed on is/are: a) Applicant may not request that any objection Replacement drawing sheet(s) including the of the oath or declaration is objected to by the Example Theorem 1.	☐ accepted or b)☐ objected to to the drawing(s) be held in abeyo correction is required if the drawin	ance. See 37 CFR 1.85(a). g(s) is objected to. See 37 CFR 1.121(d).				
-	under 35 U.S.C. § 119						
12)□ a)	Acknowledgment is made of a claim for for the All b) Some * c) None of:  1. Certified copies of the priority documents of the priority documents. Copies of the certified copies of the application from the International Esee the attached detailed Office action for	uments have been received.  uments have been received in e priority documents have bee  Bureau (PCT Rule 17.2(a)).	Application No n received in this National Stage				
2) Noti	nt(s) ice of References Cited (PTO-892) ice of Draftsperson's Patent Drawing Review (PTO-9 rmation Disclosure Statement(s) (PTO-1449 or PTO/ er No(s)/Mail Date <u>0503, 0803, 1203</u> .	48) Paper N	Summary (PTO-413) o(s)/Mail Date Informal Patent Application (PTO-152) 				

### **DETAILED ACTION**

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### Prelim./Amdt.

- 1. Receipt is acknowledged of the Amendment after Final filed January 14, 2004.
- 2. Applicant's request for reconsideration of the finality of the rejection of the last Office action is persuasive and, therefore, the finality of that action is withdrawn.
- 3. The indicated allowability of claims 8 and 23 are withdrawn in view of Zou et al. (USPT 6,186,649 B1) and Sugiyama et al. (USPT 6,278,827 B1). Rejections based on the cited reference(s) follow.

## Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 1-4, 6, 8-11, 16-19, 21, and 23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Zou et al. (USPT 6,186,649 B1) in view of Sugiyama et al. (USPT 6,278,827 B1).

Re claims 1, 9-11, and 16: Zou teaches a lighting apparatus for receiving an elongated light source (254 in Fig. 8) having an elongated member including a first material (256 in Fig. 8) and a second material (258 in Fig. 8), the first material being at least semi-transparent (col. 8, line 42-43) and the second material being substantially non-transparent (col. 8, lines 44-46 and col. 7, lines 35-43), the elongated member having a cavity (264 in Fig. 8) for receiving the elongated

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light source (252), the cavity being at least partially defined by at least a portion of the first material (the cavity 264 partially defined by the first material 256) that extends from the cavity to an outer surface of the elongated member for receiving the elongated member. Zou is silent with regard to a monolithic elongated member including a first material and a second material and a method of making the monolithic elongated material by co-extruding. However, Sugiyama teaches a lighting apparatus and its manufacturing process by using a multi-material extrusion molding machine (col. 23, line 45++). It would have been obvious to one having ordinary skill in the art at the time of the invention to employ multi-material extrusion molding machine as suggested by Sugiyama in order to make Zou's monolithic elongated member because co-extruding is a known method, and employing multi-material extrusion molding machine is within the level of ordinary skill in the art.

Re claims 2 and 17: Zou discloses the cavity (264) is at least partially defined by at least a portion of the second material (258 in Fig. 8).

Re claims 3-4 and 18-19: Zou discloses that the second material (258) is at least partially reflective (col. 8, lines 44-46).

Re claims 6 and 21: Zou discloses that a surface is shaped as a lens (424 in Fig. 12).

Re claims 8 and 23: Zou discloses that the portion of the first material (256 in Fig. 8) that at least partially defines the cavity (264) extends to two or more separate outer surface (see the two end portions of 256 in Fig. 8) regions of the elongated member, wherein at least part of the outer surface between the two or more separate regions is substantially non-transparent [the outer surface of 256 may be non-transparent (col. 8, line 42)].

6. Claims 5 and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Zou.

Re claims 5 and 20: Although Zou does not disclose that the surface is parabolic in shape. However, Zou teaches that the external enclosure can have any cross-sectional shape including circular, elliptical, oval, etc. (col. 7, line 3). Zou's elliptical shape were art-recognized equivalent at the time the invention was made, one of ordinary skill in the art would have been found it obvious to substitute parabolic shape.

7. Claims 12 and 24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Zou in view of Daniel (USPT 4,234,907) and Feldman et al. (USPT 5,753,381).

Re claims 12 and 24: Although Zou does not disclose that the light source is a linear emitting fiber or glow-in-the-dark material. However, Zou discloses that the linear light source can be any source that emits light (col. 4, lines 57-59). Further, Daniel and Feldman teach a linear emitting fiber and glow-in-the-dark material as a light source. It would have been obvious to one having ordinary skill in the art at the time of the invention to substitute Zou's light source with Daniel's linear emitting fiber or Feldman's glow-in-the-dark material because the linear emitting fiber or glow-in-the-dark material could be used as a linear light source.

## Allowable Subject Matter

- 8. Claims 13-15 and 26 are allowed.
- 9. Claims 7 and 22 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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10. The following is a statement of reasons for the indication of allowable subject matter:

Although Zou discloses a cavity, Zou fails to disclose that at least one of the first elongated piece and the second elongated piece having an elongated slit along al least part of its length that extends between the cavity and the exterior of the lighting apparatus, the slit adapted to facilitate insertion and/or extraction of the elongated light source into/from the cavity along a length of the lighting apparatus, as set forth in the claims.

#### Conclusion

- 11. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure:
- 12. Any inquiry concerning this communication or earlier communications from the examiner should be directed to *Guiyoung*Lee whose telephone number is (571) 272-2374. The examiner can normally be reached between the hours of 8:00 AM to 3:30PM

  Monday thru Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sandra O'Shea, can be reached on (571) 272-2378. The fax phone number for this Group is (703) 872-9306. The Right Fax phone number for the examiner is (571) 273-2374.

Communications via Internet e-mail regarding this application, other than those under 35 U.S.C. 132 or which otherwise require a signature, may be used by the applicant and should be addressed to [Guiyoung.lee@uspto.gov].

All Internet e-mail communications will be made of record in the application file. PTO employees do not engage in Internet communications where there exists a possibility that sensitive information could be identified or exchanged unless the record includes a properly signed express waiver of the confidentiality requirements of 35 U.S.C. 122. This is more clearly set forth in the Interim Internet Usage Policy published in the Official Gazette of the Patent and Trademark on February 25, 1997 at 1195 OG 89.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 308-0956.

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02/05/2004

Sandra O'Shea
Supervisory Patent Examiner

Technology Center 2800